



# SPYWOLF

## Security Audit Report



Completed on  
**August 30, 2023**



# OVERVIEW

This audit has been prepared for **PropelCrypto** to review the main aspects of the project to help investors make an informative decision during their research process.

You will find a summarized review of the following key points:

- ✓ Contract's source code
- ✓ Owners' wallets
- ✓ Tokenomics
- ✓ Team transparency and goals
- ✓ Website's age, code, security and UX
- ✓ Whitepaper and roadmap
- ✓ Social media & online presence

“

*The results of this audit are purely based on the team's evaluation and does not guarantee nor reflect the projects outcome and goal*

- SPYWOLF Team -

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# PropelCrypto



## PROJECT DESCRIPTION

### **According to their whitepaper:**

PropelCrypto (PCR) is an ERC20 token based on the Ethereum blockchain with a total supply of 1 quadrillion.

Its purpose is to serve as Entrepreneurs' Token in Africa, enabling them to hold, own, trade for profit and become the engine of empowering financially a Free Tuition Business School for 100% Entrepreneurship.

**Release Date:** Presale starts in September, 2023

**Category:** DeFi



# CONTRACT INFO

Token Name  
PropelCrypto

Symbol  
PCR

Contract Address  
0x264Cf2798c7Df1c86E5fe8164FE24aC7532bF624

Network  
Ethereum

Language  
Solidity

Deployment Date  
Sep 24, 2020

Contract Type  
Standard token

Total Supply  
1,000,000,000,000,000

Status  
Not launched

## TAXES

Buy Tax  
**none**

Sell Tax  
**none**



## Our Contract Review Process

The contract review process pays special attention to the following:

- ✓ Testing the smart contracts against both common and uncommon vulnerabilities
- ✓ Assessing the codebase to ensure compliance with current best practices and industry standards.
- ✓ Ensuring contract logic meets the specifications and intentions of the client.
- ✓ Cross referencing contract structure and implementation against similar smart contracts produced by industry leaders.
- ✓ Thorough line-by-line manual review of the entire codebase by industry experts.

### Blockchain security tools used:

- OpenZeppelin
- Mythril
- Solidity Compiler
- Hardhat



## TOKEN TRANSFERS STATS

Transfer Count	161
Uniq Senders	17
Uniq Receivers	41
Total Amount	1000000201147745.6 PCR
Median Transfer Amount	1500 PCR
Average Transfer Amount	6211181373588.481 PCR
First transfer date	2020-09-24
Last transfer date	2022-07-26
Days token transferred	52

## SMART CONTRACT STATS

Calls Count	N/A
External calls	N/A
Internal calls	N/A
Transactions count	N/A
Uniq Callers	N/A
Days contract called	N/A
Last transaction time	Jul-26-2022 10:44:43 PM +UTC
Created	Sep-24-2020 07:22:45 PM +UTC
Create TX	0xed5b856b86028340b70bc1c641fc423673043c6bd237f29aebf8d4fb37b03125
Creator	0xf91c4558dd42b4cdE671577dAbf202296a57c1AE



# VULNERABILITY CHECK

Design Logic	Passed
Compiler warnings.	Passed
Private user data leaks	Passed
Timestamp dependence	Passed
Integer overflow and underflow	Passed
Race conditions and reentrancy. Cross-function race conditions	Passed
Possible delays in data delivery	Passed
Oracle calls	Passed
Front running	Passed
DoS with Revert	Passed
DoS with block gas limit	Passed
Methods execution permissions	Passed
Economy model	Passed
Impact of the exchange rate on the logic	Passed
Malicious Event log	Passed
Scoping and declarations	Passed
Uninitialized storage pointers	Passed
Arithmetic accuracy	Passed
Cross-function race conditions	Passed
Safe Zeppelin module	Passed
Fallback function security	Passed



# THREAT LEVELS

When performing smart contract audits, our specialists look for known vulnerabilities as well as logical and access control issues within the code. The exploitation of these issues by malicious actors may cause serious financial damage to projects that failed to get an audit in time. We categorize these vulnerabilities by the following levels:

## High Risk

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Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Medium Risk

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Issues on this level are critical to the smart contract's performance/functionality and should be fixed before moving to a live environment.

## Low Risk

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Issues on this level are minor details and warning that can remain unfixed.

## Informational

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Information level is to offer suggestions for improvement of efficacy or security for features with a risk free factor.





# FOUND THREATS

## High Risk

No high risk-level threats found in this contract.

## Medium Risk

No medium risk-level threats found in this contract.

## Low Risk

No low risk-level threats found in this contract.



## Informational

Owner can only enable transfers.  
Transfers are currently enabled.

```
modifier canTransfer(address from) {  
    require(  
        _transferEnabled || hasRole(OPERATOR_ROLE, from),  
        "ERC20Base: transfer is not enabled or from does not have the OPERATOR role"  
    );  
    _;  
}  
  
function enableTransfer() public onlyOwner {  
    _transferEnabled = true;  
  
    emit TransferEnabled();  
}  
  
function transfer(address to, uint256 value) public virtual  
override(ERC20) canTransfer(_msgSender()) returns (bool) {  
    return super.transfer(to, value);  
}  
  
function transferFrom(address from, address to, uint256 value) public virtual  
override(ERC20) canTransfer(from) returns (bool) {  
    return super.transferFrom(from, to, value);  
}
```



## Informational

Initially owner could mint tokens, when the `_mintingFinished` is enabled. `_mintingFinished` is currently disabled and can't be enabled again.

```
function mint(address to, uint256 value) public canMint onlyMinter {
    _mint(to, value);
}

modifier canMint() {
    require(!_mintingFinished, "ERC20Base: minting is finished");
    _;
}

function finishMinting() public canMint onlyOwner {
    _mintingFinished = true;

    emit MintFinished();
}

function mintingFinished() public view returns (bool) {
    return _mintingFinished;
}
```

Owner can withdraw any tokens from the contract, except ETH. When this function is present, in cases tokens sent into the contract by mistake or purposefully, contract's owner can retrieve them.

```
function recoverERC20(address tokenAddress, uint256 tokenAmount) public onlyOwner {
    IERC20(tokenAddress).transfer(owner(), tokenAmount);
}
```



RECOMMENDATIONS FOR

# GOOD PRACTICES

---

1

Consider fundamental tradeoffs

2

Be attentive to blockchain properties

3

Ensure careful rollouts

4

Keep contracts simple

5

Stay up to date and track development

## PropelCrypto

### GOOD PRACTICES FOUND

- ✓ The owner cannot mint new tokens after deployment
- ✓ The owner cannot stop or pause the contract
- ✓ The owner cannot set a transaction limit
- ✓ The smart contract utilizes "SafeMath" to prevent overflows



There is no information about the initial tokens distribution based on the project's whitepaper and/or website.

# TOKENOMICS



# THE TEAM

! The team is anonymous

## KYC INFORMATION

### No KYC

We recommend the team to get a KYC in order to ensure trust and transparency within the community.





# WEBSITE

## Website URL

<https://propelcrypto.online/>

## Domain Registry

<https://www.godaddy.com>

## Domain Expiration

2024-03-14

## Technical SEO Test

Passed

## Security Test

Passed. SSL certificate present

## Design

Single page design with appropriate color scheme and graphics.

## Content

The information helps new investors understand what the product does right away. No grammar mistakes found.

## Whitepaper

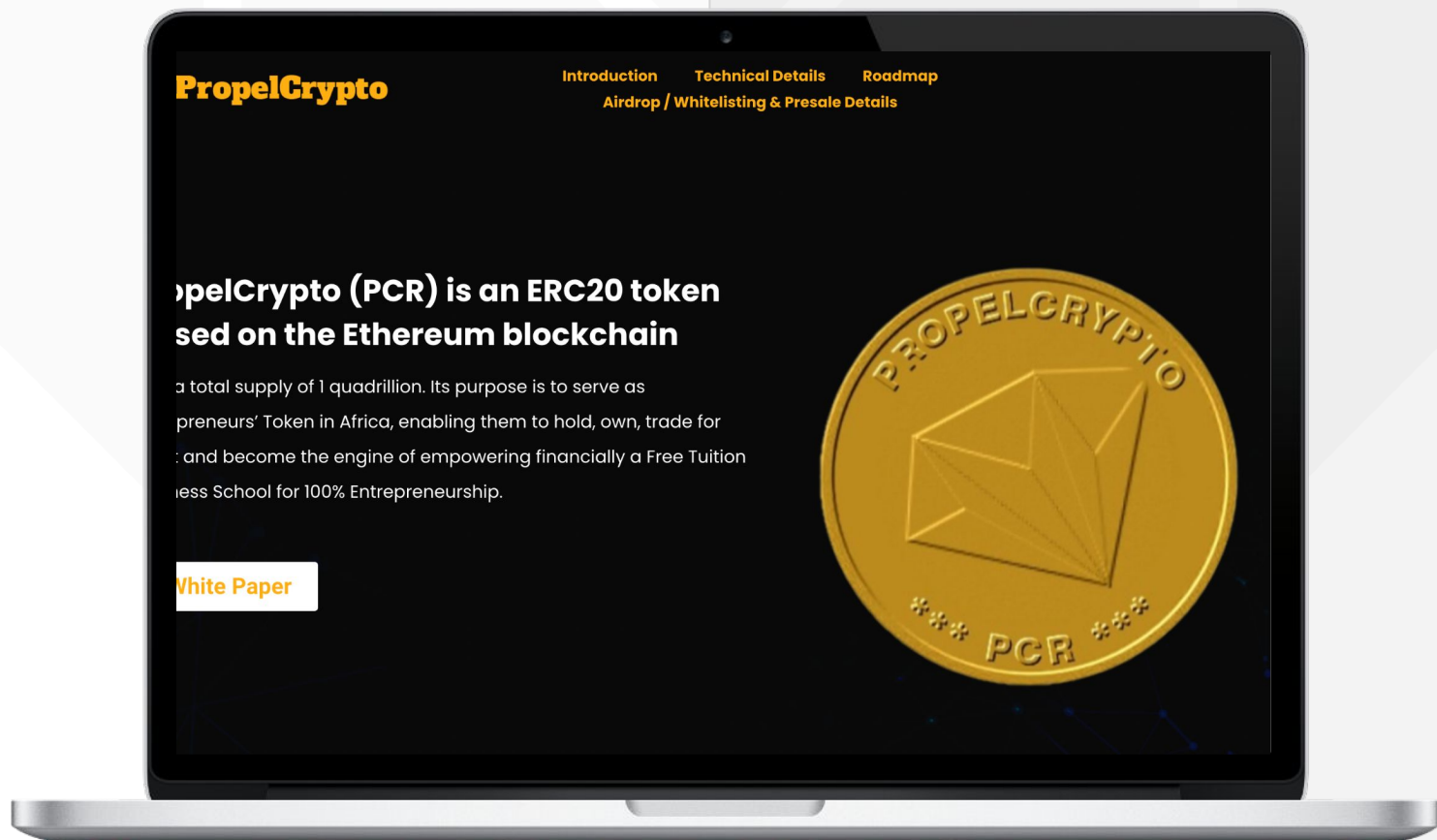
Well written, explanatory.

## Roadmap

Yes, goals set with time frames.

## Mobile-friendly?

Yes



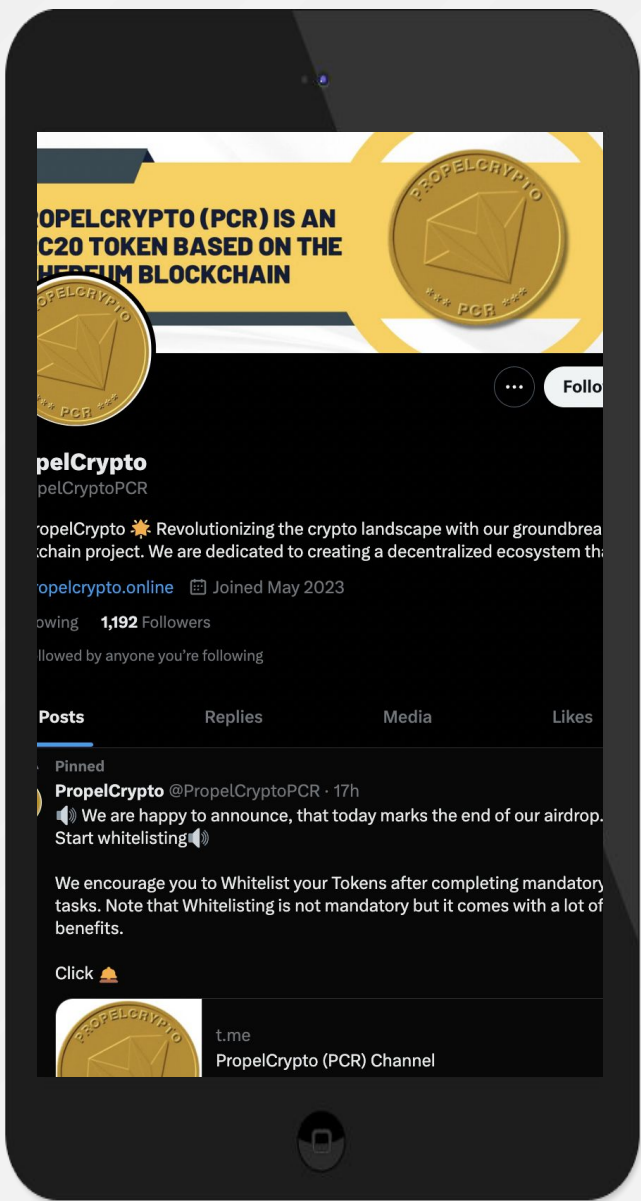
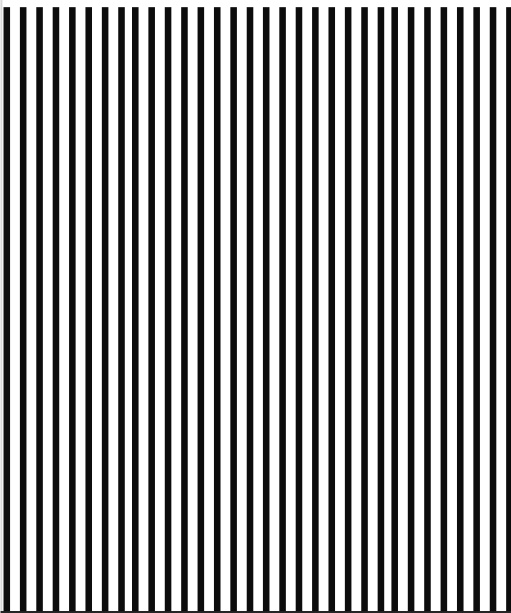
# propelcrypto.online



# SOCIAL MEDIA & ONLINE PRESENCE



ANALYSIS  
Project's social media  
pages are active



Twitter  
@PropelCryptoPCR

- 1 185 followers
- No posts yet
- New account



Discord

- Not available



Telegram  
@propelcryptoo

- 3 450 members
- Active members
- Active mods



Medium

- Not available





# SPYWOLF

## CRYPTO SECURITY

Audits | KYCs | dApps  
Contract Development

## ABOUT US

We are a growing crypto security agency offering audits, KYCs and consulting services for some of the top names in the crypto industry.

- ✓ OVER 500 SUCCESSFUL CLIENTS
- ✓ MORE THAN 500 SCAMS EXPOSED
- ✓ MILLIONS SAVED IN POTENTIAL FRAUD
- ✓ PARTNERSHIPS WITH TOP LAUNCHPADS, INFLUENCERS AND CRYPTO PROJECTS
- ✓ CONSTANTLY BUILDING TOOLS TO HELP INVESTORS DO BETTER RESEARCH

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[t.me/joe\\_SpyWolf](https://t.me/joe_SpyWolf)

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# Disclaimer

This report shows findings based on our limited project analysis, following good industry practice from the date of this report, in relation to cybersecurity vulnerabilities and issues in the framework and algorithms based on smart contracts, overall social media and website presence and team transparency details of which are set out in this report. In order to get a full view of our analysis, it is crucial for you to read the full report.

While we have done our best in conducting our analysis and producing this report, it is important to note that you should not rely on this report and cannot claim against us on the basis of what it says or doesn't say, or how we produced it, and it is important for you to conduct your own independent investigations before making any decisions. We go into more detail on this in the disclaimer below – please make sure to read it in full.

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No applications were reviewed for security. No product code has been reviewed.